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(FILE 'HOME' ENTERED AT 11:27:47 ON 04 MAR 2003)

FILE 'REGISTRY' ENTERED AT 11:28:04 ON 04 MAR 2003

E TEXAPON Q/CN
L1 9 S E1, E2, E3-E12
E SULFURIC ACID ALKYL ESTER/CN
E SULFURIC ACID ESTER/CN
L2 1 S SULFURYL CHLORIDE/CN

FILE 'CAPLUS' ENTERED AT 11:51:47 ON 04 MAR 2003

L3 0 S L1 AND ALKYL ALCOHOL
L4 154 S L1 AND ALCOHOL
L5 49 S L4 AND ETHOXYLATED

FILE 'REGISTRY' ENTERED AT 12:13:35 ON 04 MAR 2003

FILE 'CAPLUS' ENTERED AT 12:13:36 ON 04 MAR 2003

L6 33 S L2 AND ALCOHOL
L7 0 S L2 AND ETHOXYLATED ALCOHOL
L8 108 S L2 AND ESTERS

WEST Search History

DATE: Tuesday, March 04, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
L10	L9 and ((8/\$)!.CCLS.)	24	L10
L9	sulfation same alcohol	613	L9
L8	sulfation smae alcohol	0	L8
L7	L5sulfation smae alcohol	0	L7
L6	L5sulfation smae alcohol	0	L6
L5	dobanol same sulfuryl chloride	0	L5
L4	dobanol samd sulfuryl chloride	0	L4
L3	L2 and sulfuryl chloride	0	L3
L2	((558/20)!.CCLS.)	77	L2
L1	sulfuryl chloride near3 alcohol	24	L1

END OF SEARCH HISTORY

WEST Search History

DATE: Tuesday, March 04, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
L5	dobanol same sulfuryl chloride	0	L5
L4	dobanol samd sulfuryl chloride	0	L4
L3	L2 and sulfuryl chloride	0	L3
L2	((558/20)!.CCLS.)	77	L2
L1	sulfuryl chloride near3 alcohol	24	L1

END OF SEARCH HISTORY

WEST

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L10: Entry 8 of 24

File: USPT

Jul 4, 1995

DOCUMENT-IDENTIFIER: US 5429684 A

TITLE: Water-based carpet cleaning composition and method

Brief Summary Text (14):

Particularly suitable surfactants of the sulfate type are the sulfuric acid monoesters of long-chain primary alcohols of natural and synthetic origin containing 10 to 20 carbon atoms, i.e. fatty alcohols such as, for example, coconut oil fatty alcohols, tallow fatty alcohols, oleyl alcohol, or the C.sub.10-20 oxoalcohols and those of secondary alcohols having the same chain length. Other particularly suitable surfactants of the sulfate type are the sulfation products of the reaction products of C.sub.4-12 alcohols alkoxylated with 1 to 12 mol ethylene oxide with 1,2-epoxyalkanes which may be obtained, for example, by the process described in DE-OS 37 23 354. In addition, the sulfuric acid monoesters of aliphatic primary or secondary alcohols alkoxylated with 1 to 6 mol ethylene oxide may be used. Suitable surfactants of the sulfonate type are the alkane sulfonates obtainable from C.sub.12-18 alkanes by sulfochlorination or sulfoxidation and subsequent hydrolysis or neutralization and the olefin sulfonates obtained from long-chain monoolefins having a terminal or internal double bond by sulfonation with gaseous sulfur trioxide and subsequent alkaline or acidic hydrolysis of the sulfonation products.

Detailed Description Paragraph Table (1):

TABLE 1	Composition of the cleaning compositions according to the invention [% by weight]			
	CC1	CC2	CC3	CC4
C.sub.9/11 <u>alcohol</u> -- 20 -- 6 (Lutensol .RTM. ON 70; BASF)				
glucoside, degree -- -- 20 -- of polymerization 1.4 6.times. Ethoxylated				
fatty acid -- -- -- 8 (Eumulgin .RTM. Ti 60; Henkel) Li C.sub.8/12 alkyl sulfate --				
-- 5 -- (Texapon .RTM. LLS; Henkel) Sulfated hydroxyether.sup.a) -- 10 -- 8 Na				
nitrilotriacetate -- 0.2 -- 0.8 Na tripolyphosphate -- -- 3 --				
Poly(methylmethacrylate) -- 10 -- -- (Neocryl .RTM. NH 20; ICI) Copolymer of acrylic				
acid and -- -- 5 -- styrene (Ubatol .RTM. TR 1138; Stapol) Ethanol 5 -- 3 --				
Propylene glycol monobutyl -- 10 -- 6 ether Chloroacetamide -- 0.2 0.2 0.2 Water,				
fragrance, dye ad 100				
<u>sulfation</u> product of the reaction product of Nbutanol alkoxylated with 10 mol				
equivalents ethylene oxide with 1,2epoxyoctane according to DE 37 23 354				

Current US Cross Reference Classification (7):

8/137

WEST

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L10: Entry 23 of 24

File: USPT

Feb 24, 1976

DOCUMENT-IDENTIFIER: US 3940340 A

TITLE: Peracylated polyamines compatible with optical brighteners as activators for inorganic peroxo compounds

Brief Summary Text (17):

The surfactants may either be uniform products or mixtures on the basis of anionic or nonionic compounds. They may, for example, consist entirely or to a proportion of about 10 to 50 % by weight of soaps that may be derived from natural or synthetic fatty acids. They may further consist entirely of surface-active compounds of the sulfate or sulfonate type or may contain these compounds in an amount of about 30 to 70 %. Products of this type are, for example, long-chain alkyl-aryl sulfonates and aliphatic sulfonates, for example, long-chain alkane sulfonates, alkene sulfonates, oxyalkane sulfonates, furthermore, fatty alcohol sulfates and sulfation products of alkoxylated alkyl phenols, fatty acid amides or fatty acid alkylol amides containing about 1 to 20 ethoxy and/or propoxy radicals in the molecule, and sulfated monoglycerides. The anionic surfactants suitable for the use in detergents have been disclosed in detail, for example, in "Surface Active Agents and Detergents" by Schwartz, Perry and Berch, vol. II (1958), pages 25 to 102.

Current US Cross Reference Classification (6):8/648

ANSWER 41 OF 49 CAPLUS COPYRIGHT 2003 ACS

AN 1991:214158 CAPLUS

DN 114:214158

TI Reversed-phase high-performance liquid chromatographic method for the assay of 1,4-dioxane in sulfated polyoxyethylene **alcohol** surfactants

AU Scalia, S.

CS Dip. Sci. Farm., Univ. Ferrara, Ferrara, 44100, Italy

SO Journal of Pharmaceutical and Biomedical Analysis (1990), 8(8-12), 867-70
CODEN: JPBADA; ISSN: 0731-7085

DT Journal

LA English

CC 62-4 (Essential Oils and Cosmetics)

AB A rapid HPLC method was developed for the assay of 1,4-dioxane in **ethoxylated** fatty alc. sulfates. After solid-phase extn. using Bakerbond C18 cartridges, samples were directly analyzed on a LiChrosphere CH-8 reversed-phase column with UV detection at 200 nm and an MeCN-H₂O eluent. Recovery of 1,4-dioxane from the surfactant matrix was 95.7% in the 40 to 120 .mu.g g⁻¹ range. The min. quantifiable amt. was 18 .mu.g g⁻¹. The procedure is simple, reproducible, specific and suitable for routine analyses of com. surfactants.

ST dioxane detn HPLC surfactant cosmetic; chromatog liq dioxane surfactant; polyoxyethylene fatty alc sulfate dioxane

IT Cosmetics
(**ethoxylated** fatty alc. sulfates as surfactants for, dioxane detn. by HPLC in)

IT Surfactants
(**ethoxylated** fatty alc. sulfates, dioxane detn. by HPLC in cosmetic)

IT 123-91-1, 1,4-Dioxane, analysis
RL: ANT (Analyte); ANST (Analytical study)
(detn. of, in **ethoxylated** fatty alc. sulfates as cosmetic surfactants by reversed-phase HPLC)

IT 34870-92-3D, Sulfuric acid, alkyl ethers.
RL: AMX (Analytical matrix); ANST (Analytical study)
(dioxane detn. in, as cosmetic surfactants, by HPLC)

IT 9004-82-4, Zetesol 250 32612-48-9, Zetesol AP 34870-92-3D, C12-14-alkyl ethers, sodium salts 62755-21-9, Texapon MG **90026-22-5**, Texapon SBN 92047-64-8, Texapon K 14S Special 133137-20-9, Zetesol ME 70 133653-23-3, Zetesol 856T
RL: AMX (Analytical matrix); ANST (Analytical study)
(dioxane detn. in, by HPLC)

IT 27731-62-0, Sodium myreth sulfate
RL: BIOL (Biological study)
(surfactant contg., dioxane detn. in, by HPLC)

L5 ANSWER 28 OF 49 CAPLUS COPYRIGHT 2003 ACS
AN 1995:986713 CAPLUS
DN 124:201644
TI Preparation of sulfurate ester salts
IN Nishihata, Takao; Uda, Yukio; Jinno, Kazuto
PA Dai Ichi Kogyo Seiyaku Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
IC ICM C07C307-02
ICS C07C303-00
CC 23-17 (Aliphatic Compounds)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07252206	A2	19951003	JP 1994-67759	19940311
	JP 2720289	B2	19980304		
PRAI	JP 1994-67759		19940311		

AB The title compds. are prepd. by treating H₂NSO₃H (I) with reactants in in
addn. of phosphinic acid and/or its salts. A mixt. of lauryl alc., I,
and

phosphinic acid was treated at 130.degree. for 1 h, then mixed with aq.
NH₃ at 80.degree. and pH 8.0 to give 99.4% lauryl sulfate ammonium salts
with APHA no. 20.

ST sulfate ester salt prepn; discoloration prevention sulfate ester salt;
sulfation sulfamic acid phosphinate

IT Sulfation

(prepn. of sulfate ester salts with low discoloration by sulfation
with

H₂NSO₃H using phosphinates)

IT Alcohols, preparation

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)

(C12-13, **ethoxylated**, esters with sulfamic acid; prepn. of
sulfate ester salts with low discoloration by sulfation with H₂NSO₃H
using phosphinates)

IT Esters, preparation

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)

(castor-oil, with sulfamic acid; prepn. of sulfate ester salts with
low

discoloration by sulfation with H₂NSO₃H using phosphinates)

IT 108-95-2DP, Phenol, styrenated, reaction product with polyethylene oxide,
sulfate salts 110-11-2P, Octyl sulfate 143-03-3P, Stearyl sulfate
2235-54-3P, Lauryl sulfate ammonium salt 7747-53-7P 9081-17-8P
25322-68-3DP, reaction product with styrenated phenol, sulfate salts
26183-44-8P 55028-14-3P 86592-29-2P 135413-96-6P 174172-22-6P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)

(prepn. of sulfate ester salts with low discoloration by sulfation
with

H₂NSO₃H using phosphinates)

IT 111-87-5, Octyl **alcohol**, reactions 112-53-8, Lauryl
alcohol 112-92-5, Stearyl **alcohol** 143-28-2, Oleyl
alcohol 5329-14-6, Sulfamic acid 6303-21-5, Phosphinic acid
7681-53-0, Sodium phosphinate 7803-65-8, Ammonium phosphinate
9002-92-0, Poly(ethylene oxide) lauryl ether 9004-98-2, Poly(ethylene
oxide) oleyl ether 9016-45-9 26635-75-6 39278-93-8 106392-12-5,
Ethylene oxide-propylene oxide block copolymer

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of sulfate ester salts with low discoloration by sulfation
 with H2NSO3H using phosphinates)

L5 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2003 ACS
 AN 1995:967541 CAPLUS
 DN 124:175415
 TI Preparation of sulfate ester salts
 IN Nishihata, Takao; Uda, Yukio; Jinno, Kazuto
 PA Dai Ichi Kogyo Seiyaku Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C07C305-06
 ICS C07B045-00; C07C303-24; C07C305-14
 CC 23-17 (Aliphatic Compounds)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07242617	A2	19950919	JP 1994-31474	19940301
PRAI	JP 1994-31474		19940301		

AB The title compds. are prepd. by treating H2NSO3H (I) with reactants in which I is wet grinding in the reactants. A mixt. of lauryl alc., I, and urea was wet ground to give a slurry, which was treated at 130.degree.

for 1 h, mixed with aq. NH3 at 80.degree. to give 99.0% lauryl sulfate ammonium salts.

ST sulfate ester salt prepn; sulfation sulfamic acid grinding

IT Sulfation
 (prepn. of sulfate ester salts by sulfation with H2NSO3H grinding in reactants)

IT Alcohols, preparation
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (C12-13, **ethoxylated**, esters with sulfamic acid; prepn. of sulfate ester salts by sulfation with H2NSO3H grinding in reactants)

IT Esters, preparation
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (castor-oil, with sulfamic acid; prepn. of sulfate ester salts by sulfation with H2NSO3H grinding in reactants)

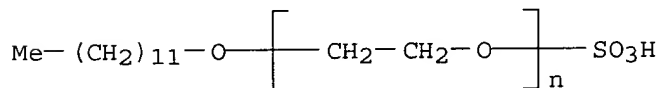
IT 108-95-2DP, Phenol, styrenated, reaction product with polyethylene oxide, sulfate salts 110-11-2P, Octyl sulfate 143-03-3P, Stearyl sulfate **2235-54-3P**, Lauryl sulfate ammonium salt 7747-53-7P 9081-17-8P 25322-68-3DP, Poly(ethylene oxide), reaction product with styrenated phenol, sulfate salts 26183-44-8P 55028-14-3P 86592-29-2P 106864-19-1P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of sulfate ester salts by sulfation with H2NSO3H grinding in reactants)

IT 111-87-5, Octyl **alcohol**, reactions 112-53-8, Lauryl **alcohol** 112-92-5, Stearyl **alcohol** 143-28-2, Oleyl **alcohol** 5329-14-6, Sulfamic acid 9002-92-0, Poly(ethylene oxide) lauryl ether 9004-98-2, Poly(ethylene oxide) oleyl ether 9016-45-9 26635-75-6 39278-93-8 106392-12-5, Ethylene oxide-propylene oxide block copolymer
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of sulfate ester salts by sulfation with H2NSO3H grinding in reactants)

L1 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2003 ACS
 RN 27028-82-6 REGISTRY
 CN Ethanol, 2,2',2''-nitrilotris-, compd. with .alpha.-sulfo-.omega.-
 (dodecyloxy)poly(oxy-1,2-ethanediyl) (1:1) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glycols, polyethylene, mono(hydrogen sulfate), dodecyl ether, compd. with
 2,2',2''-nitriloethanol (1:1) (8CI)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, compd.
 with 2,2',2''-nitrilotris[ethanol] (1:1) (9CI)
 OTHER NAMES:
 CN Alscoap LE 240N
 CN Alscoap N 3T
 CN Emal 20T
 CN Nikkol SBL 2T36
 CN Nikkol SBL 4T
 CN Nissan Persoft EFT
 CN Persoft EFT
 CN Poly(oxyethylene) lauryl ether sulfate triethanolamine salt
 CN Poly(oxyethylene) lauryl ether triethanolamine sulfate
 CN Polyethylene glycol lauryl ether sulfate-triethanolamine salt
 CN Polyoxyethylene lauryl ether sulfate triethanolamine
 CN Texapon EXT-NT
 CN **Texapon NT**
 CN Triethanolamine laureth sulfate
 CN Triethanolamine lauryl ether sulfate
 DR 128808-90-2, 74565-55-2, 52094-59-4
 MF C6 H15 N O3 . (C2 H4 O)n C12 H26 O4 S
 PCT Polyether
 LC STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER,
 USPATFULL
 Other Sources: NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

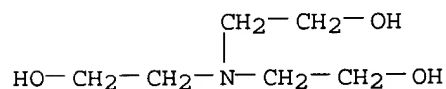
CM 1

CRN 26183-44-8
 CMF (C2 H4 O)n C12 H26 O4 S
 CCI PMS



CM 2

CRN 102-71-6
 CMF C6 H15 N O3



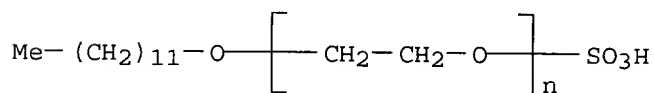
163 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
163 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L1 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2003 ACS
 RN 90026-22-5 REGISTRY
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(3-carboxy-1-oxosulfopropyl)-.omega.-(dodecyloxy)-, disodium salt, mixt. with .alpha.-sulfo-.omega.-(dodecyloxy)poly(oxy-1,2-ethanediyl) sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt, mixt. contg. (9CI)
 OTHER NAMES:
 CN Gamal SBS 11
 CN **Texapon SBN**
 MF (C2 H4 O)_n C16 H30 O7 S . (C2 H4 O)_n C12 H26 O4 S . 3 Na
 CI MXS
 PCT Polyester, Polyether, Polyother
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 9004-82-4 (26183-44-8)
 CMF (C2 H4 O)_n C12 H26 O4 S . Na
 CCI PMS



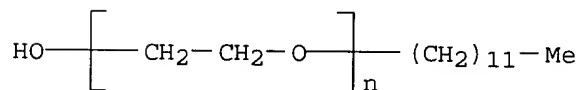
● Na

CM 2

CRN 58450-52-5
 CMF (C2 H4 O)_n C16 H30 O7 S . 2 Na
 CCI IDS, PMS

CM 3

CRN 9002-92-0
 CMF (C2 H4 O)_n C12 H26 O
 CCI PMS



CM 4

CRN 5138-18-1
 CMF C4 H6 O7 S